



THIRD SPACE  
LEARNING

# 3rd Grade Arkansas State Practice Math Test

Arkansas Practice Test Grade 3

Grade 3

## Questions

Name: .....

Class: .....

Date: .....

Score: .....

Short answer and multiple choice.

Standard: 3.OA.B.6

DOK 1

- 1 Johanna has 24 books and 3 shelves to put them on. If she puts an equal number of books on each shelf, how many books will there be on each shelf?

Answer:\_\_\_\_\_

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Standard: 3.NF.A.3

DOK 2

- 2 What is a number that will make the comparison true?

$$\frac{1}{?} < \frac{1}{3}$$

Answer: \_\_\_\_\_

Standard: 3.NBT.A.1

DOK 2

- 3 Select all the numbers that when rounded to the nearest ten, round to be 620.

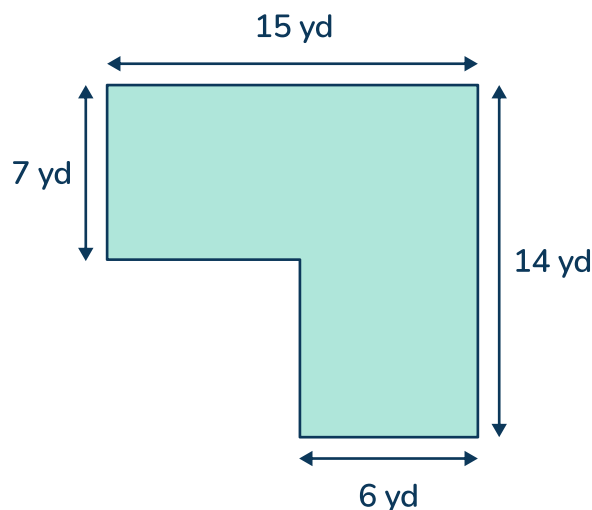
- ☐ 604
- ☐ 617
- ☐ 623
- ☐ 600
- ☐ 621

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Standard: 3.MD.C.7

DOK 2

- 4 Julie moved into a new house, and the diagram below shows the shape of her new room.



What is the area of Julie's new room in square yards?

Answer: \_\_\_\_\_

Standard: 3.OA.C.7

DOK 1

- 5 Which number makes the equation true?

$$90 \times 6 = \underline{\hspace{2cm}}$$

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Standard: 3.MD.C.6

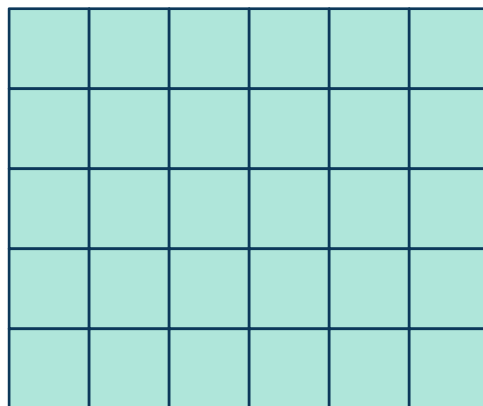
DOK 2

- 6 The diagram below shows the floor plan of Lindsay's bedroom.



Represents 1 square foot

What is the area of Lindsay's bedroom in square feet?



Answer: \_\_\_\_\_

Standard: 3.OA.C.7

DOK 2

- 7 Dillion rides his skateboard 5 days a week for 20 minutes a day. How many minutes does Dillion spend riding his skateboard every 2 weeks?

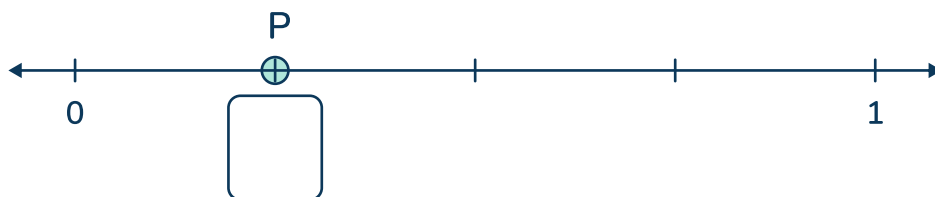
Answer:\_\_\_\_\_

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Standard: 3.NF.A.2

DOK 2

- 8 Which fraction is represented by point P on the number line shown below?



Standard: 3.OA.B.6

DOK 1

- 9 An equation is shown below. What is the missing value?

$$\underline{\hspace{2cm}} \div 4 = 8$$

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Standard: 3.OA.D.9

DOK 1

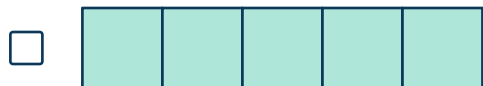
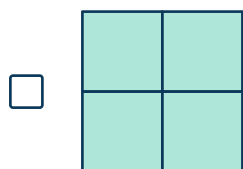
- 10 Deb is skip counting. What is the next number in the pattern?

3,6,9,12,\_\_\_\_\_,

Standard: 3.G.A.2

DOK 2

- 11 The square below represents  $\frac{1}{4}$  of a whole. Select the shapes that represent one whole.



## Arkansas Practice Test | Grade 3 | Questions

*Standard: 3.NBT.A.6*

*DOK 1*

- 12 Compare the numbers using  $<$ ,  $>$ , or  $=$ .

2,467 \_\_\_\_\_ 2,476

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*Standard: 3.MD.A.1*

*DOK 2*

- 13 Ty arrives at his friend's house at 2:14 pm and leaves at 2:55 pm. How many minutes did Ty spend at his friend's house?



## Arkansas Practice Test | Grade 3 | Questions

Standard: 3.NF.A.3

DOK 2

- 14 Create a fraction that is greater than  $\frac{3}{8}$  and less than  $\frac{3}{4}$ .

Answer:\_\_\_\_\_

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Standard: 3.NBT.A.2

DOK 1

- 15 What is the value of the expression,  $905-327$ ?

Standard: 3.OA.B.6

DOK 1

- 16 What number makes the equations true?

$$7 \times \underline{\hspace{2cm}} = 42$$

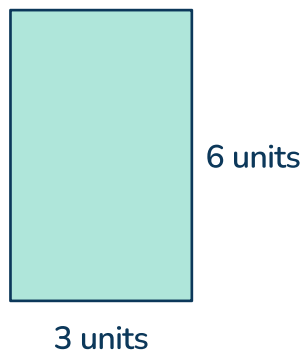
$$42 \div 7 = \underline{\hspace{2cm}}$$

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Standard: 3.MD.D.8

DOK 2

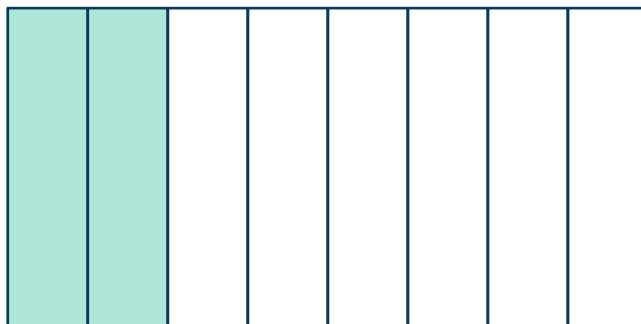
- 17 Kellie draws a rectangle in her notebook. She labels two of the sides as 3 units and the other two sides as 6 units. What is the perimeter of the rectangle she drew?



Standard: 3.NF.A.3

DOK 2

- 18 Angela had a rectangle with 8 equal parts. She shaded 2 of them. Select the fractions that could represent the picture.



- ☐  $\frac{2}{8}$
- ☐  $\frac{3}{8}$
- ☐  $\frac{1}{3}$
- ☐  $\frac{1}{4}$
- ☐  $\frac{2}{10}$

Standard: 3.NBT.A.3

DOK 2

19 What numbers make the equations true?

$$8 - \underline{\hspace{1cm}} = 5$$

$$80 - \underline{\hspace{1cm}} = 50$$

$$800 - \underline{\hspace{1cm}} = 500$$

---

Standard: 3.OA.C.7

DOK 3

20 Xavier has 45 lollipops. He gives all of the lollipops to 5 friends. If each friend gets the same number of lollipops, how many lollipops does each friend get?

Answer: \_\_\_\_\_

Standard: 3.NF.A.2

DOK 2

- 21 Place the numbers 0,  $\frac{5}{8}$ , and 1 on the number line.



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Standard: 3.NBT.A.1

DOK 2

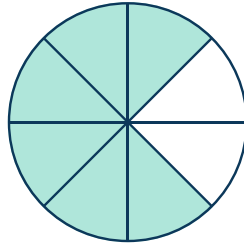
- 22 A student writes a number that is greater than 575 but when that number is rounded to the nearest hundred it rounds the same number as 575. What is one possible value of the number?

Answer:\_\_\_\_\_

Standard: 3.NF.A.3

DOK 1

- 23 Write a fraction that represents the shaded part of the circle below.



Answer:\_\_\_\_\_

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Standard: 3.OA.D.8

DOK 3

- 24 Devin has 7 boxes of ping pong balls with 12 balls in each box. Devin gave 22 ping pong balls to her cousin.
- A. Write an equation to represent the number of ping pong balls,  $b$ , that Devin has left.

Answer:\_\_\_\_\_

- B. Solve for the amount of ping pong balls that Devin has left.

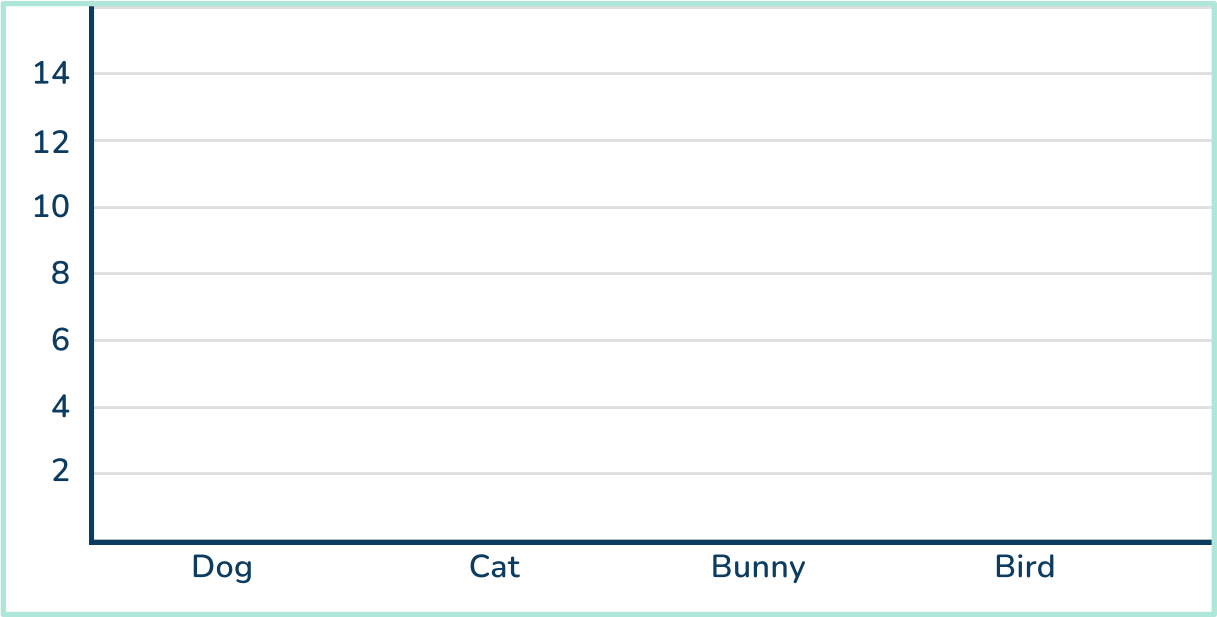
Answer:\_\_\_\_\_

Standard: 3.MD.B.3  
DOK 3

- 25 The table below represents the results of a survey taken in the second grade class on the types of pets they have.

Type of Pet	Tally
Dog	12
Cat	7
Bunny	8
Bird	3

A. Create a bar graph that represents the results of the survey.



B. How many more students have a dog than a bird?

Answer:\_\_\_\_\_

C. How many students responded to the survey?

Answer:\_\_\_\_\_

## Rationales

Item	KEY	Rationale
1	8 books	$24 \div 3 = 8$ , 8 books per shelf

Item	KEY	Rationale
2	Possible numbers 4, 5, 6, 7, 8, 9,	$\frac{1}{4} < \frac{1}{3}$ OR $\frac{1}{5} < \frac{1}{3}$ OR $\frac{1}{6} < \frac{1}{3}$ .....

Item	KEY	Rationale
3	617, 623, 621	617 rounded to the nearest ten is 620 because the digit 7 makes the number round up. 623 rounded to the nearest ten is 620 because the digit 3 makes the number round down. 621 rounded to the nearest ten is 620 because the digit 1 makes the number round down.

Item	KEY	Rationale
4	147 yd <sup>2</sup>	$15 \times 7 = 105$ $6 \times 7 = 42$ $105 + 42 = 147$

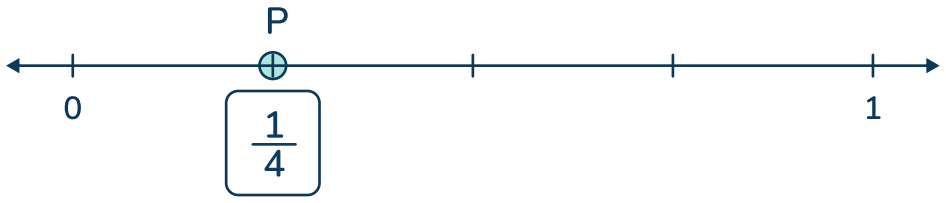
Item	KEY	Rationale
5	540	$90 \times 6 = 540$



## Arkansas Practice Test | Grade 3 | Rationales

Item	KEY	Rationale
6	30 square feet	Counting up all the small squares, there are 30 of them. So, the area is 30 square feet.

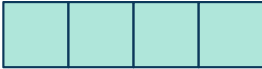
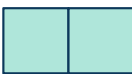
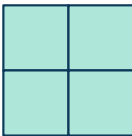
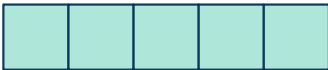

Item	KEY	Rationale
7	200 minutes	5 days for 20 minutes a day = 100 minutes So, that is 100 minutes in a week so in two weeks he spends 200 minutes riding his skateboard.

Item	KEY	Rationale
8	$\frac{1}{4}$	<p>The number line is divided into 4 equal parts. So, point P represents <math>\frac{1}{4}</math></p>  <p>The diagram shows a horizontal number line with arrows at both ends. It is marked with 0 at the left end and 1 at the right end. There are four equal intervals between 0 and 1, created by three tick marks. The first tick mark after 0 is labeled with a circled 'P' above it and a box containing <math>\frac{1}{4}</math> below it.</p>

Item	KEY	Rationale
9	32	$32 \div 4 = 8$

Item	KEY	Rationale
10	15	The pattern is 3, 6, 9, 12, 15. They are multiples of 3.

## Arkansas Practice Test | Grade 3 | Rationales

Item	KEY	Rationale
11	The two that should be selected are the first one and the third one.	<input checked="" type="checkbox"/>  <input type="checkbox"/>  <input checked="" type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/> 

Item	KEY	Rationale
12	<	$2,467 < 2,476$

Item	KEY	Rationale
13	41 minutes	2:14 PM to 2:55 PM is 41 minutes.

Item	KEY	Rationale
14	$\frac{1}{2}$ is a possible answer	$\frac{1}{2}$ is a fraction that is greater than $\frac{3}{8}$ and less than $\frac{3}{4}$ . $\frac{2}{3}$ is another fraction that is greater than $\frac{3}{8}$ and less than $\frac{3}{4}$ .

Item	KEY	Rationale
15	578	$905 - 327 = 578$

## Arkansas Practice Test | Grade 3 | Rationales


Item	KEY	Rationale
16	6	$7 \times 6 = 42$ $42 \div 7 = 6$

Item	KEY	Rationale
17	18	$Perimeter = 6 + 6 + 3 + 3 = 18units$

Item	KEY	Rationale
18	$\frac{2}{8}$ and $\frac{1}{4}$	Two out of 8 or 1 out of 4 is shaded. So, $\frac{2}{8} = \frac{1}{4}$

Item	KEY	Rationale
19	3, 30, 300	$8-3=5$ $80-30=50$ $800-300=500$

Item	KEY	Rationale
20	9 lollipops	$45 \div 5 = 9$ Each friend gets 9 lollipops

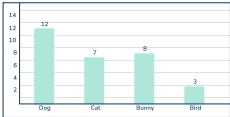
Item	KEY	Rationale
21	See Rationale	

## Arkansas Practice Test | Grade 3 | Rationales

Item	KEY	Rationale
22	Possible answer: 603	575 rounded to the nearest hundred is 600.  603 rounded to the nearest hundred is 600. Any number greater than 575 that rounds to 600 is correct.

Item	KEY	Rationale
23	$\frac{6}{8}$ or $\frac{3}{4}$	6 out of 8 parts are shaded so that is the fraction $\frac{6}{8}$ or $\frac{3}{4}$ .

Item	KEY	Rationale
24. A.	$7 \times 12 - 22 = b$	7 times 12 balls in each box minus the 22 she gave away.
24. B.	62	$7 \times 12 = 84$ $84 - 22 = 62$ Devin has 62 ping pong balls left

Item	KEY	Rationale
25 A.		Creating a bar graph to represent data in the survey. There are 30 student responses. 12 for dog, 7 for cat, 8 for bunny and 3 for bird.
25. B.	9 more students	$12 - 3 = 9$
25. C.	30	$12 + 7 + 8 + 3 = 30$




Breakdown of Assessment			
Operations and Algebraic thinking (OA)	Number and Operations in Base Ten (NBT)	Number and Operations - Fractions (NF)	Measurement and Data (MD) and Geometry (G)
This Assessment: 32%	This Assessment: 20%	This Assessment: 24%	This Assessment: 24%

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